

WHAT IS CLAIMED IS:

- 1 1. A display system, detachable from a host device, the display
2 system, comprising:
3 a power source;
4 a processor coupled to the power source;
5 a memory coupled to the power source and the processor;
6 a flexible electronic display coupled to the processor and the
7 power source;
8 a coupler for coupling the flexible electronic display to the
9 host device; and
10 a flexible touch sensor movable with the flexible electronic
11 display.
- 1 2. The display system of claim 1, wherein the flexible electronic
2 display is electronic paper (e-paper).
- 1 3. The display system of claim 1, wherein the flexible display is
2 foldable.
- 1 4. The display system of claim 1, wherein the host device is a
2 handheld computer.
- 1 5. The display system of claim 1, wherein the flexible touch
2 sensor includes a transparent coating.
- 1 6. The display system of claim 1, wherein the flexible touch
2 sensor includes an electrotextile.
- 1 7. A portable electronic device, comprising: a housing;
2 a coupler connected to the housing; and

3 a flexible display screen assembly, the flexible display screen
4 assembly being viewable when coupled to the coupler and expandable to
5 provide a larger viewing area, at least when decoupled from the coupler,
6 the flexible display screen assembly including,
7 a power source;
8 a processor coupled to the power source;
9 a memory coupled to the power source and the
10 processor;
11 a flexible electronic display coupled to the processor
12 and the power source; and
13 a flexible touch sensor movable with the flexible
14 electronic display, providing an enlarged touch sensor area when
15 the viewing area of the flexible display screen assembly is enlarged.

1 8. The portable electronic device of claim 7, wherein the
2 flexible electronic display is electronic paper (e-paper).

1 9. The portable electronic device of claim 7, wherein the
2 flexible display is foldable.

1 10. The portable electronic device of claim 7, wherein the
2 portable electronic device is a handheld computer.

1 11. The portable electronic device of claim 7, wherein the
2 flexible touch sensor includes a transparent coating.

1 12. The portable electronic device of claim 7, wherein the
2 flexible touch sensor includes an electrotextile.

1 13. A foldable display assembly, comprising:
2 a power source;
3 a processor coupled to the power source;

4 a memory coupled to the power source;
5 a foldable electronic display coupled to the processor and the
6 power source;
7 a coupler for coupling the foldable electronic display to a
8 host device; and
9 a foldable touch sensor foldable with the foldable electronic
10 display.

1 14. The foldable display of claim 13, wherein the foldable
2 electronic display is electronic paper (e-paper).

1 15. The foldable display of claim 13, wherein coupler includes a
2 coupler for coupling to a handheld computer.

1 16. The foldable display of claim 13, wherein the flexible touch
2 sensor includes a transparent coating.

1 17. The foldable display of claim 13, wherein the flexible touch
2 sensor includes an electrotextile.

1 18. A handheld computer, comprising:
2 a housing;
3 an expandable display assembly supported on the housing,
4 providing a viewing area when the expandable display assembly is folded
5 and providing a larger viewing area when the expandable display
6 assembly is expanded; and
7 a touch sensor associated with the expandable display, the
8 touch sensor being enlarged when the expandable display is expanded.

1 19. The handheld computer of claim 18, wherein the expandable
2 display assembly is electronic paper (e-paper).

1 20. The handheld computer of claim 18, wherein the expandable
2 display assembly is foldable.

1 21. The handheld computer of claim 18, wherein the portable
2 electronic device is a handheld computer.

1 22. The handheld computer of claim 18, wherein the touch
2 sensor includes a transparent coating.

1 23. The handheld computer of claim 18, wherein the touch
2 sensor includes an electrotextile.

1 24. A method of using a handheld computer, comprising:
2 viewing an image on an unenlarged viewing area of a flexible
3 display;
4 providing input to the handheld computer via a touch sensor
5 having an unenlarged sensing area associated with the flexible display;
6 enlarging the flexible display to provide an enlarged viewing
7 area;
8 viewing an image in the enlarged viewing area;
9 providing input to the handheld computer via a touch sensor
10 having an enlarged sensing area associated with the flexible display.

1 25. The method of claim 24, further comprising:
2 decoupling the flexible display from the handheld computer.

1 26. The method of claim 24, further comprising:
2 providing input using a fingertip.

1 27. The method of claim 24, further comprising:
2 providing input using a stylus.